## Approved For Release 2002/08/14 : CARD 1B00879R001000110095-9

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MEMORANDUM FOR THE RECORD

SUBJECT : Model 220 Tracker - Status and Operational Outline

Status of Model 220 tracker systems for Ope-INS test checking:

- 1. 4- Model 220 tracker camera's with electric clock, frame marker and 80 mm lens.
  - 6- 70 mm magazines for Model 220 tracker units.
  - 4- Intervalometer boxes with driver panel control; 6. 12. 18 second timing.
  - 4- Oriver Panels with run, two minute operate and MATE MOUSE.
  - 4- Kadio interference Illters.
  - 4- Interconnecting cables.
- 2. Equipment has been delivered

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Tracke	er Camora	. #	-	
	Tracker	Unito	locate-	25X1
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Ja . 87.	ines:			
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Jater.	ial 70am	•		
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STAKE

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Intervalomet						
2- Inter	valometer Units	Locate-		25X1		
contr	ied assemblies. I olled from the Nav ced and marked aut tore button.	Mode. Sp	ecial frame			
z- Inter	valometer Units	Locate-		25X1		
by th	ard assemblies. I e driver panel. I only. No interce buttons.	av Mode ac	VANCOS OSE	25X1		
Shock Mounte	d France:	_		20/(1		
2. Franc	<b>5</b>	Locate-				
**		Locate-				
		Locato-				
Driver Costr	ol Panel:					
3- Panel	<b>6</b>	Locate-				
for use with the standard intervalumeter box only.						
1- Panel		Locate		25X1		
Alter bozes	ed for beach test!	ing modifie	d intervaleme	<b>) t e 7</b>		
Radio Interi	erance Filters:					
4- Filte	<b>**</b>	Locate-		25X1		
Intervalogeter-Filter Interconnecting Cables:						
d- Cable	***	Locate-		25X1		

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1	Cable	Locate-	25
	hatch. Addition required. (Int Type II equipmen	no payload and Type III lower all cables to be provided as erface cable to be used with t to be fabricated when the ation equipment is Installed	
	Hatch	Locate-	25>
	Tracker brackets able at this tim	installed, no windows avai:	<b>l-</b>

General outline of the tracker installation:

should be coordinated with

Type II package: field crew, installation of the tracker

- The tracker system may only be installed in the vehicles which have the required vehicle and INS wiring changes.
- Type III lower hatch with special support bracket should be made ready the day before a flight. Tracker comera, shock mounted frame, radio filter, intervalorater box and interconnecting cable should be placed on the hatch.
- 3. The camera electric clock should be time backed with Ops reference.
- Select and install desired lens filter. When using Type 4400 material, the yellow filter will normally be used. Set exposure time for 1/500 second. F/s setting is recommended for laitial testing of the system.

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- 3. Select the desired intervaloneter time of 6, 12, or 18 seconds with the associated time switch.
- 6. Install interface cable in the Q bay. Connectors Q4, Q5, and Q6 should be mated, and the cable secured in place.
- 7. The tracker magazine should be loaded with a 196 fect roll ow 70mm Type 4400 material by the Type II or Process personnel.

  After the magazine has been loaded, it will be taken to the hangar and mated with the tracker camera on the lower hatch.

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- Clear inside surface of window and camera lear and silter with soft cloth and a one to one solution or alcohol and water.
- is like to a point where there is reem remaining to reach in the aft end of the angently and mate the tracker-vehicle interface cable with the intervalemeter box. (Note. Cace the interface connector is mated with the intervalement with the intervalement box, the equipment will operate automatically when over the Nav Note signal is present from the INS equipment.)
- 10. Close and secure the bottom hatch assembly.
- 11. The tracker camera requires the following impute in order to operate. Hence, the associated circuit breakers must be closed.
  - a. Phase A, 400 cycle power from inverter #2 (C bay breakers)
  - b. 28 Y DC to Q bay from the Th supply.
  - c. May, Store and VGM lines from the IMS connector.
- 12. Clear external surface of the tracker window.

## SECRET

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13. Operation of the camera is automatic. Whom the INS Nav Mode is initiated the camera will start, and continue to be sequenced by the intervalemeter until the Nav Mode is terminated. Material supply is equivalent to approximately 910 frames.

When the Fix-Store button is depressed, the camera will automatically advance one frame, and a special frame mark will be recorded on this frame. The time clock is recorded on all frames.

14. No tracker camera malfunction indication is provided for the driver.

At the end of the mission, the tracker should be unloaded as follows:

- i. Lower the bottom hatch until the intervalemeter mating connector can be reached from the aft end of the hatch. Remove connector.
- 2. Remove film magazine and forward to for processing. (Processing Note. Material Type 4400, Size 70mm by 190 feet, process "full" with observer control when required).

3. Replace protection covers on film magazine and camera shutter assembly. Cover on shutter assembly is most important because of the extremely iragile focal plane shutter curtains.

- 4. Remove vehicle interface cable from Q bay and store.
- any place other than in that the tracker camera ou removed from the lower hatch mounting frame and stored in the Ops building or in

6. Evaluation of the processed material to be occrdinated with the Ops and IMS groups.

 Cover windows with breakage protection cover. Cover intervaloactor box, tracker and frame with plantic or cloth for storage.

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S. Modification of the remaining change, etc. may be coordinated to	
Wiring schematic of the vehic	cle interface cable is enclosed
An additional instruction man maintenance manual will be provide completion delay has been caused system and equipment specification	sed within 30 days. Hangal by the changing tracker
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Distribution:  Cy 1 - AD/CGA  2 - D/TECH/CGA  3 - CD/CGA  4 - MD/CGA  5 - D/FA/CGA	er 1963)

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